

RTS Refactoring Update

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Texas Department *of* Motor Vehicles

HELPING TEXANS GO. HELPING TEXAS GROW.

Project Overview

What is Refactoring?

- The essence of refactoring is improving the underlying technical implementation with modern, more agile and sustainable technology, while preserving the existing application functionality
- For example, refactoring is like remodeling a house. At the end of the remodel, there is improved plumbing, energy-efficient windows, and a new security system, but you still use the house in the same way.

TxDMV Objectives for Refactoring Project

Current State Pain Points

- **Challenges of the current RTS include:**
 - Older generation technology limits RTS functionality
 - Limited reporting capabilities (difficult to create customized reports)
 - Limited staff skilled in maintaining the older technologies
 - Costs/time required to maintain and operating RTS code and changes
 - Difficult to upgrade the current system
 - Cannot search by customer name



TxDMV
Refactoring

Desired Future State

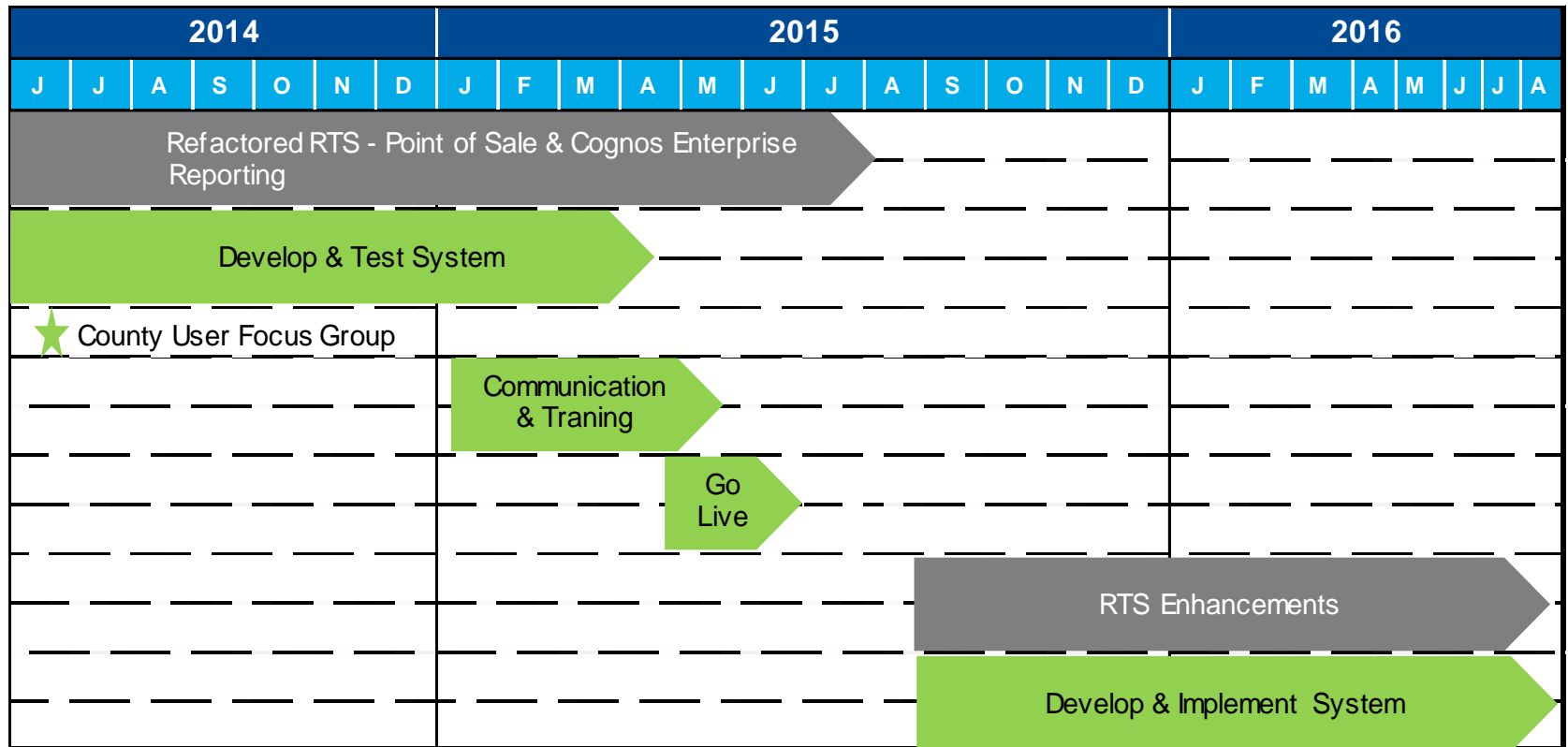
- **Refactoring (spring 2015):**
 - Shift to newer technology capable of resolving the challenges faced with the current RTS
 - Enhanced reporting capabilities
 - Abundant staff skilled in maintaining the technology
 - More efficient to maintain and operate RTS code and changes (less down-time)
- **Post Refactoring (Fall 2015+):**
 - Easier to upgrade and enhance the system
 - Provide better tools to serve customers
 - Search by customer name



Timeline



Project Timeline

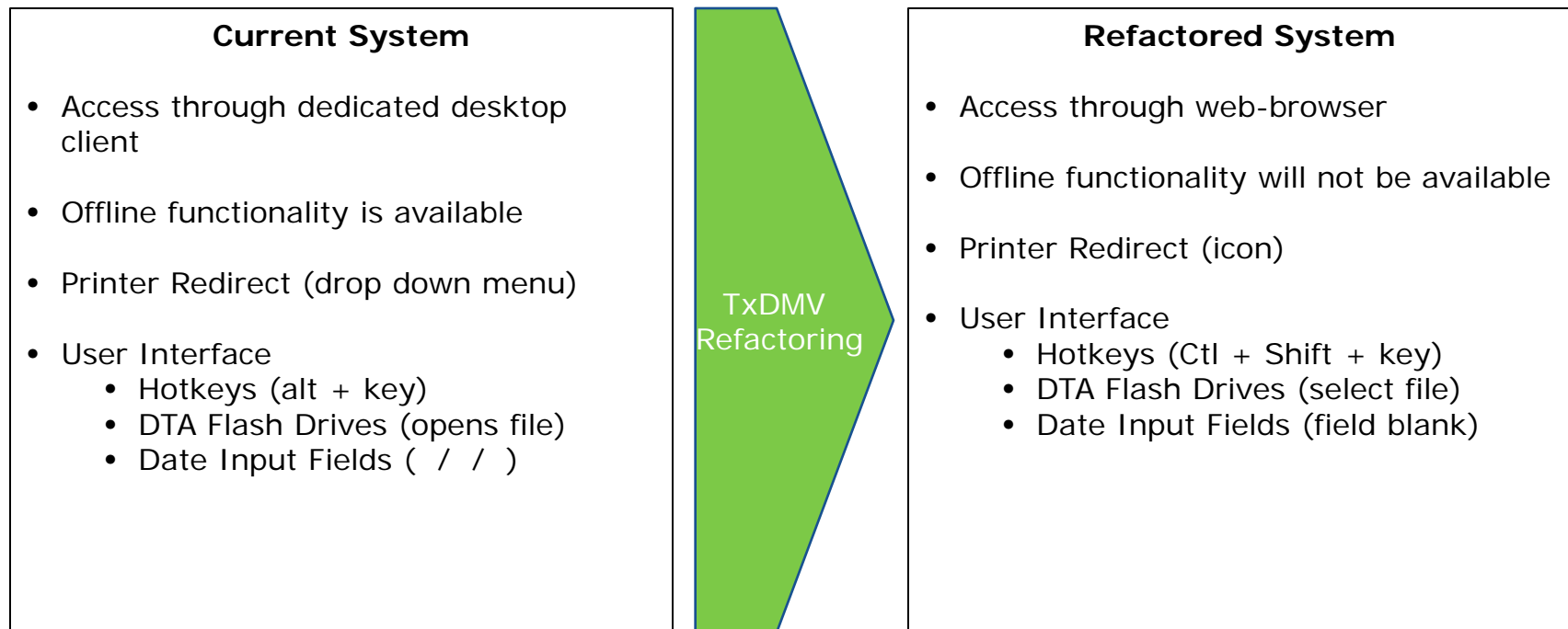


Upcoming County Impact



Refactored RTS – Point of Sale (POS)

- Goal: Refactor the POS to update code, improve maintainability, enhance user-friendliness, and position the system for the future



Refactored RTS – Point of Sale (POS) Video Demonstration



TxDMV Refactored RTS Demo

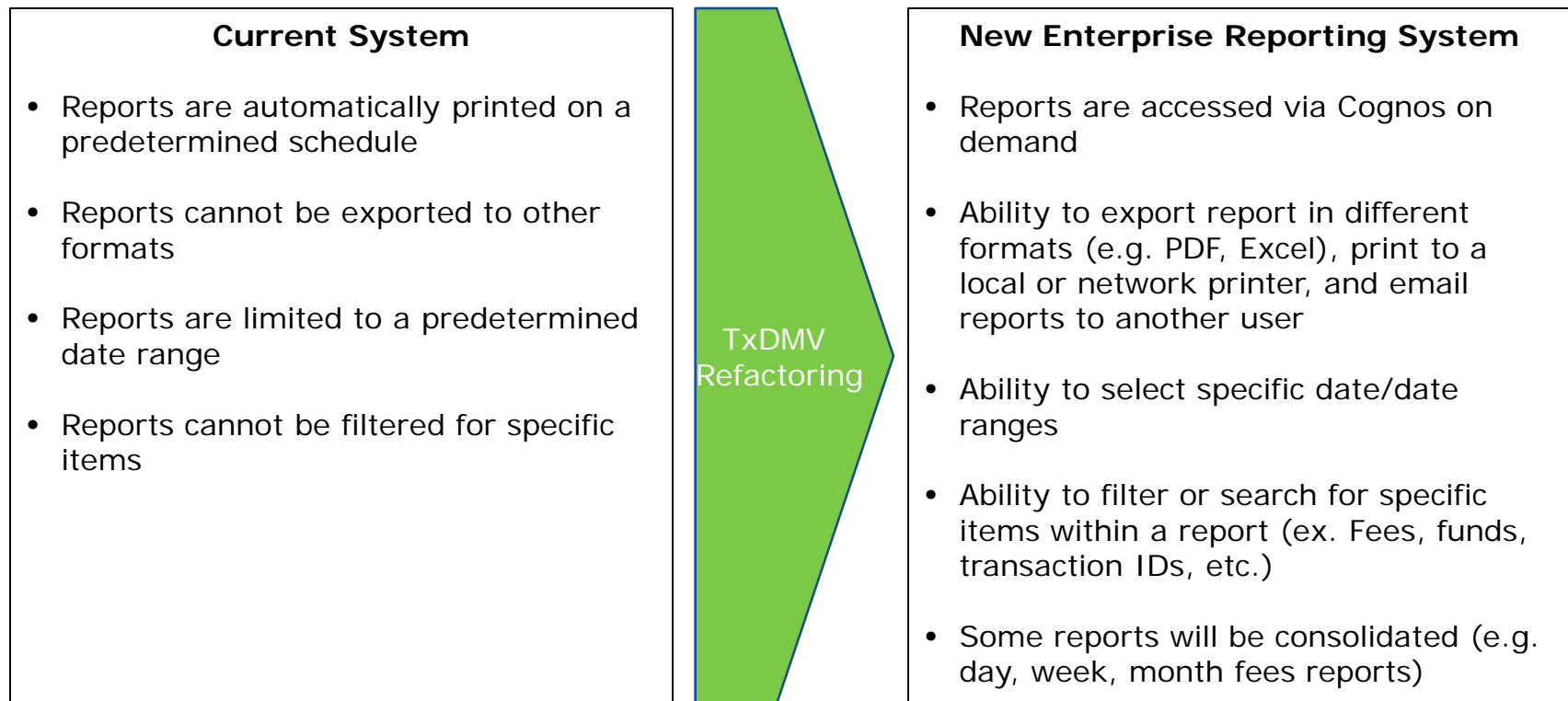


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Enterprise Reporting (Cognos)

- Goal: Update & optimize reporting capabilities



*Affects mainframe download reports only

Cognos Reports – On Demand



Example: Cognos Reports – Counties

Legacy Report Number	Legacy Report Name	Legacy Access/Delivery	Cognos Report Name	Cognos Access/Delivery
RTS.MSC.9192	VEHICLES SOLD BY DEALER BY COUNTY		Dealer Report	On-Demand Only
RTS.ACC.4702	INVENTORY TRANSACTIONS	Daily (downloaded automatically)	Inventory Transactions	On-Demand Only
RTS.ACC.4802	MONTHLY FUNDS REPORT / YOUNG FARMER	Monthly (mailed or downloaded automatically)	Monthly Funds	On-Demand Only
RTS.ACC.4802	MONTHLY FUNDS REPORT / SALES TAX PENALTY	Monthly (mailed or downloaded automatically)		
RTS.ACC.4802	SALES TAX REPORT	Monthly (mailed or downloaded automatically)		
RTS.ACC.4802	MONTHLY FUNDS REPORT/REGISTRATION EMISSIONS FEE	Monthly (mailed or downloaded automatically)		
RTS.ACC.4802	SALES TAX EMISSION FEE 1%	Monthly (mailed or downloaded automatically)		
RTS.ACC.4802	TEXAS MOBILITY FUND FEE	Monthly (mailed or downloaded automatically)		
RTS.ACC.4802	TERP FEE	Monthly (mailed or downloaded automatically)		
RTS.ACC.4882	REGISTRATION AND TITLE EMISSIONS SUMMARY REPORT	Upon Request Only (Production Data Support (PDS) distributes)		
RTS.ACC.4883	PRODUCE REGISTRATION AND TITLE EMISSIONS REPORT	Upon Request Only (Production Data Support(PDS) distributes)		
RTS.ACC.4604	FUNDS REMITTANCE REPORT	Daily (downloaded automatically)	Funds Remittance	On-Demand Only
RTS.ACC.4605	FUNDS REMITTANCE REPORT	Monthly (downloaded automatically)		
RTS.ACC.4672	APPREHENSION REPORT	Weekly (downloaded automatically)	\$5 Buyer Tag Fees	On-Demand Only
RTS.TRN.3461	Collection of \$5 DEALER FEE			
RTS.TRN.3463	Collection of \$5 DEALER FEE		<Fee Type> Funds	On-Demand Only
RTS.ACC.4602	FUNDS TRANSACTIONS	Daily (downloaded automatically)		
RTS.ACC.4603	FUNDS SUMMARY	Daily (downloaded automatically)	Fee Collection and Distribution	On-Demand Only
RTS.SUM.9353	REGISTRATION AND TITLE SUMMARY REPORT (254 Counties)	Upon Request Only (Production Data Support (PDS) distributes)		
RTS.SUM.9352	YEAR-TO-DATE Reg & Tital Summary	Upon Request Only (downloaded automatically)		
RTS.SUM.9362	REG and TITLE FEES summary report - grand totals		Week/Month-to-Date Fees report	On-Demand Only
RTS.ACC.4552	WEEK-TO-DATE CASH DRAWER REPORT	Weekly/Daily/Upon Request (downloaded automatically)		
RTS.ACC.456B2	WEEK-TO-DATE FEES REPORT (Consolidated Collections)	Weekly/Daily/Upon Request (downloaded automatically)		
RTS.ACC.456B3	WEEK-TO-DATE FEES REPORT	Weekly/Daily/Upon Request (downloaded automatically)		
RTS.ACC.458B2	MONTH-TO-DATE FEES REPORT (Consolidated Collections)	Monthly (downloaded automatically)		
RTS.ACC.458B3	MONTH-TO-DATE FEES REPORT (Individual Fee sources)	Weekly/Upon Request (downloaded automatically)		
RTS.ACC.456C4	WEEK-TO-DATE FEES REPORT (Detail Notes)		Sales Tax Funds	On-Demand Only
RTS.TRN.381A3	REPORT OF SELECTEED SALES TAX FUNDS			
N/A (new report)	N/A	N/A	CRBF Report	On-Demand Only
RTS.MSC.0922	WORKSTATION TRANSACTION COUNT		Workstation Transaction Count	On-Demand Only
RTS.PR.D.9483	DAILY PRODUCTION REPORT		Employee Transaction Report	On-Demand Only
RTS.PR.D.9482	PRODUCTION REPORT	Monthly (downloaded automatically)		
RTS.TRN.5152	VOIDED TRANSACTION REPORT	Daily (downloaded automatically or Production Data Support (PDS) distributes)	Voided Transactions	On-Demand Only
RTS.SPC.3564	SPECIAL PLATES COUNTY INVOICE	Daily (downloaded automatically)	SPECIAL PLATES COUNTY INVOICE	On-Demand Only
RTS.NM.366A4	NMVTIS INQUIRY ERROR	Daily (downloaded automatically)	NMVTIS INQUIRY ERROR	On-Demand Only

County (Mainframe) Download Report – Current View



RTS.ACC.456B3
PRD2 RTS64603
246

TEXAS DEPARTMENT OF MOTOR VEHICLES REGISTRATION AND TITLE SYSTEM


WEEK-TO-DATE FEES REPORT
WILLIAMSON COUNTY
FEE SOURCE: CUSTOMER

(246)

	SUNDAY 09/22/13	MONDAY 09/23/13	TUESDAY 09/24/13	WEDNESDAY 09/25/13	THURSDAY 09/26/13	FRIDAY 09/27/13
TITLE						
REBUILT FEE			65.00		65.00	130.00
TITLE APPLICATION FEE		3,874.00	5,096.00	3,848.00	4,459.00	4,017.00
HOT CHECK - TITLE FEE		13.00-				
TOTAL TITLE :	0.00	3,861.00	5,161.00	3,848.00	4,524.00	4,147.00
REGISTRATION						
ORGAN DONOR FEE		1.00	1.00		1.00	
VETERANS' FUND		2.00	7.00			5.00
ANTIQUE PLT		100.00	50.00	50.00	150.00	150.00
AUTOMATION FEE		730.00	865.00	743.00	996.00	1,101.00
LATE REGISTRATION PENALTY		52.75	142.10	81.20	93.05	103.35
PLATE STICKER		4,445.00	3,665.00	4,253.00	4,334.00	4,293.00
REG FEE-DPS		611.00	756.00	631.00	886.00	969.00
WINDSHIELD STICKER		29,809.61	38,445.45	34,603.58	46,446.91	54,735.69
HOT CHECK - AUTOMATE FEE		2.00-				

County Cognos Reports – Future View (Week-To-Date)





Texas Department of Motor Vehicles

REPORT

RTS.FIN.010

Registration & Title System
WEEK/MONTH-TO-DATE FEES

Select Report Type

* ☒ Weekly
☐ Monthly

Select Office

* 1 - ANDERSON

[Select all](#) [Deselect all](#)

Select Fee Source

APPREHENSIONS
CUSTOMER
DEALER TITLE
INTERNET
IRP
SUBCONTRACTOR
TIME LAG/ADJUST

[Select all](#) [Deselect all](#)

Select Account Item Code

144BLK-R - 144 HOUR BULK RCPTS REGION
144PT - 144 HOUR PERMIT
I144PT - 144 HOUR PERMIT - WEBPERMIT
144PT-R - 144 HOUR PERMIT REGION
30PT - 30-DAY PERMIT
I30PT - 30-DAY PERMIT - WEBPERMIT
30PT-R - 30-DAY PERMIT REGION
SPL0201 - 4-H PLT
5APPTR-R - 5 YEAR APPORTION TRL REGION
5TOKTR-R - 5 YEAR TOKEN TLR REGION
RENTTR-R - 5YR RENTAL TRAILER REGION

[Select all](#) [Deselect all](#)

Select Week Date

* Sep 9, 2014

Select Total BreakDown Display


* All

Cancel

Finish

County Cognos Reports – Future View (Week-To-Date)





Texas Department of Motor Vehicles

REPORT

RTS.FIN.010

Registration & Title System

WEEK/MONTH-TO-DATE FEES

For: 09/08/2014 - 09/12/2014

Week Start Date:

09/08/2014

Week End Date:

09/12/2014

Office:

1 - ANDERSON

Account Item Code:

All

Fee Source:


All

Office	Payable Type	Account Item	Monday		Tuesday		Wednesday		Thursday		Week Total	
			09/08/2014		09/09/2014		09/10/2014		09/11/2014			
			All Fee Sources (\$)	Quantity	All Fee Sources (\$)	Quantity	All Fee Sources (\$)	Quantity	All Fee Sources (\$)	Quantity		
	REGISTRATION	30-DAY PERMIT	100.00	4	150.00	6	75.00	3	0.00	0	325.00	13
		72 HOUR PERMIT	125.00	5	50.00	2	0.00	0	25.00	1	200.00	8
		AUTOMATION FEE	212.00	214	156.00	160	148.00	148	106.00	106	622.00	628
		AUTOMATION FEE (LARGE CNTY)	212.00	214	156.00	160	148.00	148	106.00	106	622.00	628
		BUYERS TAG	130.00	26	130.00	28	210.00	44	55.00	11	525.00	109
		CNTY ROAD BRIDGE ADD-SEE	1,930.00	195	1,270.00	131	1,290.00	129	880.00	88	5,370.00	543

		STATE PARKS DONATION	5.00	1	0.00	0	0.00	0	0.00	0	5.00	1
		TEMPORARY DISABLED PLACARD	0.00	0	0.00	0	10.00	2	5.00	1	15.00	3
		TRANSFER	27.50	11	10.00	4	5.00	2	22.50	11	65.00	28
		VETERANS' FUND	1.00	1	0.00	0	0.00	0	7.00	3	8.00	4
		WINDSHIELD STICKER	9,912.27	169	5,412.88	107	5,916.26	117	3,929.87	79	25,171.28	472
		Total REGISTRATION	14,341.53	1,091	8,554.36	799	8,741.47	769	5,795.50	530	37,432.86	3,189
	SALES TAX	SALES TAX EMISSION FEE 1%	0.00	0	0.00	0	500.09	1	0.00	0	500.09	1
		SALES TAX FEE	17,372.70	56	32,106.05	48	36,855.00	65	12,719.28	33	99,053.03	202
		SALES TAX PENALTY FEE	40.64	2	116.11	2	62.01	2	51.57	4	270.33	10
		TEXAS MOBILITY FUND FEE	795.00	53	780.00	54	930.00	62	525.00	37	3,030.00	206

County Cognos Reports – Future View (Month-To-Date)



**Texas Department of Motor Vehicles**

REPORT

RTS.FIN.010

Registration & Title System

WEEK/MONTH-TO-DATE FEES

Select Report Type

☐ Weekly
☒ Monthly

Select Year

2014

Select Month

September

Select Office

1 - ANDERSON

Select all Deselect all

Select Fee Source

APPREHENSIONS
CUSTOMER
DEALER TITLE
INTERNET
IRP
SUBCONTRACTOR
TIME LAG/ADJUST

Select all Deselect all

Select Account Item Code

144BLK-R - 144 HOUR BULK RCPTS REGION
144PT - 144 HOUR PERMIT
I144PT - 144 HOUR PERMIT - WEBPERMIT
144PT-R - 144 HOUR PERMIT REGION
30PT - 30-DAY PERMIT
I30PT - 30-DAY PERMIT - WEBPERMIT
30PT-R - 30-DAY PERMIT REGION
SPL0201 - 4-H PLT
5APPTR-R - 5 YEAR APPORTION TRL REGION
5TOKTR-R - 5 YEAR TOKEN TLR REGION
RENTTR-R - 5YR RENTAL TRAILER REGION

Select all Deselect all

Select Total BreakDown Display

All
All
Totals by Office
Total By Subcontractor ID
Total by Fee Source
Totals By Branch Office
Funds Adjustments

Cancel

Finish

County Cognos Reports – Future View (Week-To-Date)



Texas Department of Motor Vehicles

REPORT

Registration & Title System

WEEK/MONTH-TO-DATE FEES

For: 09/01/2014 - 09/30/2014

RTS.FIN.010

Month Start Date: 09/01/2014
Month End Date: 09/30/2014
Office: 1 - ANDERSON
Account Item Code: All
Fee Source: All

Office	Payable Type	Account Item	September				Month Total	
			(09/02/2014 - 09/05/2014)		(09/08/2014 - 09/11/2014)			
			All Fee Sources (\$)	Quantity	All Fee Sources (\$)	Quantity	All Fee Sources (\$)	Quantity
	REGISTRATION	30-DAY PERMIT	600.00	24	325.00	13	925.00	37
		72 HOUR PERMIT	250.00	10	200.00	8	450.00	18
		ANTIQUE PLT	40.00	1	0.00	0	40.00	1
		AUTOMATION FEE	999.00	1,013	622.00	628	1,621.00	1,641
		AUTOMATION FEE (LARGE CNTY)	999.00	1,013	622.00	628	1,621.00	1,641
		BUYERS TAG	345.00	77	525.00	109	870.00	186
		CNTY ROAD BRIDGE ADD-ON FEE	9,160.00	928	5,370.00	543	14,530.00	1,471
		DELINQUENT TRANSFER PENALTY	40.00	6	60.00	6	100.00	12
		DELQ TRANS PENALTY 2008	100.00	3	75.00	5	175.00	8

		REPLACEMENT FEE >6	150.00	27	44.00	16	194.00	43
		STATE OF THE ARTS PLT	0.00	0	60.00	2	60.00	2
		STATE PARKS DONATION	10.00	2	5.00	1	15.00	3
		TEMPORARY DISABLED PLACARD	25.00	5	15.00	3	40.00	8
		TRANSFER	55.00	22	65.00	28	120.00	50
		VETERANS' FUND	5.00	1	8.00	4	13.00	5
		WINDSHIELD STICKER	42,181.67	830	25,171.28	472	67,352.95	1,302
		Total REGISTRATION	61,874.11	5,068	37,432.86	3,189	99,306.97	8,257
	SALES TAX	SALES TAX EMISSION FEE 1%	0.00	0	500.09	1	500.09	1
		SALES TAX FEE	65,040.04	163	99,053.03	202	164,093.07	365

Batch Reports – On-Demand



Example: Batch Reports – Counties

Legacy Report Number	Legacy Report Name	Legacy Access/Delivery	Post Refactoring Report Name	Post Refactoring Access/Delivery
5901	County Wide Payment	Daily (downloaded automatically)	County Wide Payment	On-Demand (POS)
5902	County Wide Fees	Daily (downloaded automatically)	County Wide Fees	On-Demand (POS)
5903	County Wide Inventory	Daily (downloaded automatically)	County Wide Inventory	On-Demand (POS)
5904	County Wide Exception	Daily (downloaded automatically)	County Wide Exception	On-Demand (POS)
5911	Title Package Report	Daily (downloaded automatically)	Title Package Report	On-Demand (POS)
9021	Completed Set Aside Transactions	Daily (downloaded automatically)	Completed Set Aside Transactions	On-Demand (POS)
9901	Batch Inventory Action Report (BIAR)	Daily (downloaded automatically)	Batch Inventory Action Report (BIAR)	On-Demand (POS)
5921	Substation Summary Payment	Daily (downloaded automatically)	Substation Summary Payment	On-Demand (POS)
5922	Substation Summary Fees	Daily (downloaded automatically)	Substation Summary Fees	On-Demand (POS)
5923	Substation Summary Inventory	Daily (downloaded automatically)	Substation Summary Inventory	On-Demand (POS)

POS Reports – On-Demand



Example: POS Reports – Counties

Legacy Report Number	Legacy Report Name	Legacy Access/Delivery	Post Refactoring Report Name	Post Refactoring Access/Delivery
7472	County IRP Transmittal	Weekly (downloaded automatically)	County IRP Transmittal	On-Demand (POS)
5901	County Wide Online Payment	On-Demand (POS)	County Wide Online Payment	On-Demand (POS)
5902	County Wide Online Fees	On-Demand (POS)	County Wide Online Fees	On-Demand (POS)
5904	County WideOnline Exception	On-Demand (POS)	County WideOnline Exception	On-Demand (POS)
5161	Inventory Detail Report	On-Demand (POS)	Inventory Detail Report	On-Demand (POS)
5201	Close Out Statistics	On-Demand (POS)	Close Out Statistics	On-Demand (POS)
5211	Payment Type Report	On-Demand (POS)	Payment Type Report	On-Demand (POS)
5212	Current Status Report	On-Demand (POS)	Current Status Report	On-Demand (POS)
5213	Close Out Report	On-Demand (POS)	Close Out Report	On-Demand (POS)
5221	Inventory Summary Report	On-Demand (POS)	Inventory Summary Report	On-Demand (POS)
5231	Transaction Reconciliation	On-Demand (POS)	Transaction Reconciliation	On-Demand (POS)
5241	Fees Report	On-Demand (POS)	Fees Report	On-Demand (POS)
5921	Substation Summary Online Payment	On-Demand (POS)	Substation Summary Online Payment	On-Demand (POS)
5922	Substation Summary Online Fees	On-Demand (POS)	Substation Summary Online Fees	On-Demand (POS)
5923	Substation Summary Online Inventory	On-Demand (POS)	Substation Summary Online Inventory	On-Demand (POS)
3001	Inventory Delete Report	On-Demand (POS)	Inventory Delete Report	On-Demand (POS)
3011	Inventory Allocate Report	On-Demand (POS)	Inventory Allocate Report	On-Demand (POS)
3021	Inventory Received Report	On-Demand (POS)	Inventory Received Report	On-Demand (POS)
3031	Inventory Inquiry Report	On-Demand (POS)	Inventory Inquiry Report	On-Demand (POS)
3041	Inventory Items on Hold Report	On-Demand (POS)	Inventory Items on Hold Report	On-Demand (POS)
3051	Inventory Profile Report	On-Demand (POS)	Inventory Profile Report	On-Demand (POS)
9901	Inventory Online Action Report	On-Demand (POS)	Inventory Online Action Report	On-Demand (POS)
2151	Preliminary Dealer Report	On-Demand (POS)	Preliminary Dealer Report	On-Demand (POS)
2161	Sticker/Receipt Report	On-Demand (POS)	Sticker/Receipt Report	On-Demand (POS)
2171	Dealer Completed	On-Demand (POS)	Dealer Completed	On-Demand (POS)
5911	Title Package Report	On-Demand (POS)	Title Package Report	On-Demand (POS)
5071	Electronic Title Report	On-Demand (POS)	Electronic Title Report	On-Demand (POS)
2002	Internet Transaction Reconciliation De	On-Demand (POS)	Internet Transaction Reconciliation Detai	On-Demand (POS)
2311	Funds Remittance Verification	On-Demand (POS)	Funds Remittance Verification	On-Demand (POS)
4001	Employee Security	On-Demand (POS)	Employee Security	On-Demand (POS)
4002	Event Security	On-Demand (POS)	Event Security	On-Demand (POS)
4003	Security Change	On-Demand (POS)	Security Change	On-Demand (POS)
4011	Lienholders	On-Demand (POS)	Lienholders	On-Demand (POS)
4012	Subcontractor	On-Demand (POS)	Subcontractor	On-Demand (POS)
4013	Dealer	On-Demand (POS)	Dealer	On-Demand (POS)
4014	Certified Lienholder	On-Demand (POS)	Certified Lienholder	On-Demand (POS)
5061	Sales Tax Allocation	On-Demand (POS)	Sales Tax Allocation	On-Demand (POS)
8001	Disabled Placard Report	On-Demand (POS)	Disabled Placard Report	On-Demand (POS)
8002	Disabled Placard Report	On-Demand (POS)	Disabled Placard Report	On-Demand (POS)
9001	Void Transaction	On-Demand (POS)	Void Transaction	On-Demand (POS)
6001	Special Plates Application	On-Demand (POS)	Special Plates Application	On-Demand (POS)
4021	Publishing Report	On-Demand (POS)	Publishing Report	On-Demand (POS)
5051	Exempt Audit Report	On-Demand (POS)	Exempt Audit Report	On-Demand (POS)



Questions?